Name: HW2-polynomials.FormA

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Geometry, Period

Due Date: Wed, 27 Aug 2014

**Geometry**

**Homework**



**I. Combine Like Terms**

**= k + 8k**

**= 9k**

**= -12k – 4k**

**=**



**= -1s + \_\_\_\_\_\_\_\_\_**

**= x(-21 + 6y) + y(\_\_\_ - \_\_\_\_)**



**II. Square the Binomial** (use the FOIL method – multiply the First numbers in each parenthesis, then the Outside numbers, then Inside, then Last)

*Example:*

|  |  |  |  |
| --- | --- | --- | --- |
| ***Expression*** | ***Expanded form*** | ***FOIL*** | ***Simplify*** |
|  | *=* | *=* | *=* |
|  | **=(2x+3)(2x+3)** | **=4x2 + 6x + 6x + 9** | **= 4x2 + 12x + 9** |
|  | **=(4x+5y)( )** | **=\_\_\_x2 +20xy+\_\_\_xy+\_\_\_y2** |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

*Do you see any pattern in these numbers?*

**III. Find the Binomial (Factor the expression)**

8 = 1+7 and 1×7 = 7

8 = 2+6 and 2×6 = 12

**8 = 3+5 and 3×5 = 15**

8 = 4+4 and 4×4 = 16

Ex: =

1. **= (n + 3)(n + 1)**
2. **2 = (x - \_\_\_ )(x + \_\_\_ )**
3. **= (n - \_\_\_ )(n - \_\_\_ )**
4. **=**
5. **=**

**IV. Simplify the expression**

1. **= = (x+2)**

**V. Change the subject** *(hint: use GEMA / PEMDAS)*

1. Solve for s:

**x2 x2**

**2Q = (r-s) t**

**÷t ÷t**

**2Q = (r-s)**

**t**

**-r -r**

**-1 x (2Q –r)= (-s ) x -1**

**t**

**r-2Q = s**

**t**

1. Solve for x:
2. Solve for n: